INFORMATION DISCLOSURE CITATION

PTO-1449

AUG 04 2000 PATENT & TRADEMARK OFFICE 3656

ATTY. DOCKET NO.	SERIAL NO.
A-67499-1/RFT/RMS/RMK	09/472,657
APPLICANT KAYYEM	
FILING DATE December 27, 1999	GROUP ~~3736~~ 1634

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
✓	1	5,607,646	3/1997	Okano et al.			
✓	2	5,603,711	2/1997	Parins et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes	Translation No
✓	3	98/20162	5/1998	PCT				
	4	98/57159	12/1998	PCT				
	5	96/40712	12/1996	PCT				
	6	197 25 190	12/1998	DE				x

EXAMINER	DATE CONSIDERED
✓	1/11/2003

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INFORMATION DISCLOSURE CITATION

PTO-1449

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ATTY. DOCKET NO. A-67499-1/RFT/ RMS/RMK	SERIAL NO: 09/472,657
APPLICANT: KAYYEM	
FILING DATE: December 27, 1999	GROUP ~~3736~~ 1634

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
MV	1	4,707,352	11/17/87	Stavrianopoulos			
	✓ 2	4,707,440	11/1987	Stavrianopoulos	435	6	
	✓ 3	4,711,955	12/8/87	Ward et al.			
	✓ 4	4,755,458	7/5/88	Rabbani et al.			
	✓ 5	4,849,513	7/18/89	Smith et al.	536	27	
	✓ 6	4,868,103	9/19/89	Stavrianopoulos et al.			
	✓ 7	4,894,325	1/16/90	Englehardt et al.			
	✓ 8	4,943,523	7/24/90	Stavrianopoulos			
	✓ 9	4,952,685	8/28/90	Stavrianopoulos			
	✓ 10	4,994,373	2/19/91	Stavrianopoulos			
	✓ 11	5,002,885	3/26/91	Stavrianopoulos			
	✓ 12	5,013,831	5/7/91	Stavrianopoulos			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes	Translation No
MV	13	0 63879	11/3/82	Europe ✓				
	✓ 14	92/10757	6/25/92	PCT (WO) ✓				
	✓ 15	0 234938	2/26/87	EP (A2) ✓				
	✓ 16	93/10267	PCT	✓				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
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INFORMATION DISCLOSURE CITATION

PTO-1449

DEC 26 2000 PATENT & TRADEMARK OFFICE JC116

ATTY. DOCKET NO.	SERIAL NO:
A-67499-1/RFT/ RMS/RMK	09/472,657
APPLICANT: KAYYEM	
FILING DATE: December 27, 1999	GROUP ~~3736~~ 1634

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
✓	17	5,082,830	1/21/92	Brakel et al.			
✓	18	5,175,269	12/29/92	Stavrianopoulos			
✓	19	5,241,060	8/31/93	Englehardt et al.			
✓	20	5,278,043	1/11/95	Bannwarth et al.	536	23.1	
✓	21	5,312,527	5/17/94	Mikkelsen et al.	204	153.12	
✓	22	5,328,824	7/12/94	Ward et al.			
✓	23	5,449,767	9/12/95	Ward et al.			
✓	24	5,472,881	12/95	Beebe et al.	436	94	
✓	25	5,476,928	12/19/95	Ward et al.			
✓	26	5,595,908	1/21/97	Fawcett et al.	435	287.2	
✓	27	5,565,552	10/15/96	Magda et al.	534	11	
✓	28	5,573,906	11/12/96	Bannwarth et al.	435	6	
✓	29	5,591,578	1/7/97	Meade et al.	435	6	
✓	30	5,601,982	2/1997	Sargent et al.	435	6	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes	Translation No
✓	31	2 090904	9/24/93	CANADA ✓				
✓	32	0 599337	1/16/94	EPO ✓				
✓	33	238,166	1988	JP (Abstract (63-238166)) ✓				
✓	34	0 229943	7/29/87	EP ✓				
✓	35	96/40712	12/19/96	WO ✓				

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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
W	36	4,840,893	6/20/89	Hill et al.	435	6	
	37	5,403,451	4/4/95	Riviello et al.	204	153.1	
	38	5,620,850	4/15/97	Bamdad et al.	530	300	
	39	5,780,234	7/14/98	Meade et al.	435	6	
	40	5,770,369	6/23/98	Meade et al.	435	6	
	41	5,705,348	1/6/98	Meade et al.	435	6	
	42	5,824,473	10/1998	Meade et al.	435	6	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes	Translation No
W	43	0515615	9/4/96	EP (UK)				
	44	97/01646	1/16/97	WO				
	45	93/23425	11/25/93	WO				
	46	90/05732	5/31/90	WO				
	47	6-41183	2/15/94	JP			X	
	48	93/22678	11/1993	PCT				
	49	97/44651	11/1997	PCT				
	50	98/35232	8/1998	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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INFORMATION DISCLOSURE CITATION

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FILING DATE: December 27, 1999	GROUP ~~3736~~ 1634

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
✓	51	5,776,672	7/1998	Hashimoto et al.			
	✓ 52	5,952,172	9/1999	Meade et al.			
	✓ 53	5,552,270	9/1996	Khrapko et al.			
	✓ 54	5,741,700	4/1998	Ershov et al.			
	✓ 55	5,770,721	6/1998	Ershov et al.			
	✓ 56	5,851,772	12/1998	Mirzabekov et al.			
✓	✓ 57	5,756,050	5/1998	Ershov et al.			
				X			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes	Translation No
✓	✓ 58	95/15971	6/1995	PCT ✓				
	✓ 59	94/22889	10/1994	PCT ✓				
	✓ 60	98/20162	5/1998	PCT ✓				
	✓ 61	99/14596	3/1999	PCT ✓				
	✓ 62	99/67425	12/1999	PCT ✓				
	✓ 63	98/28444	7/1998	PCT ✓				
	✓ 64	98/27229	6/1998	PCT ✓				
✓	✓ 65	97/27329	7/1997	PCT ✓				
				X				
				X				

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PATENT & TRADEMARK OFFICE

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
✓	66	Alleman, K.S., et al., "Electrochemical Rectification at a Monolayer-Modified Electrode," *J. Phys. Chem.*, 100:17050-17058 (1996).
X	67	Arkin et al. "Evidence for Photoelectron Transfer Through DNA Intercalation," *J. Inorganic Biochem. Abstracts*, 6th International Conference on Bioinorganic Chemistry, 51(1) & (2):526 (1993).
X	68	Barisci et al., "Conducting Polymer Sensors," *TRIP*, 4(9):307-311 (1996).
X	69	Baum, R. M., "Views on Biological, Long-Range Electron Transfer Stir Debate," *C&EN*, pp 20-23 (1993).
X	70	Bechtold, R., et al., "Ruthenium-Modified Horse Heart Cytochrome *c*: Effect of pH and Ligation on the Rate of Intramolecular Electron Transfer between Ruthenium(II) and Heme(III)," *J. Phys. Chem.*, 90(16):3800-3804 (1986).
✓	71	Bidan, "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A Review.," *Sensors and Actuators*, B6:45-56 (1992).
✓	72	Biotechnology and Genetics: Genetic Screening Integrated Circuit," *The Economist* (February 25-March 3, 1995).
X	73	Boguslavsky, L. et al., "Applications of redox polymers in biosensors," *Solid State Ionics*, 60:189-197 (1993).
X	74	Bowler, B. E., et al., "Long-Range Electron Transfer in Donor (Spacer) Acceptor Molecules and Proteins," *Progress in Inorganic Chemistry: Bioinorganic Chemistry*, 38:259-322 (1990).
X	75	Brun, A. M., et al., "Photochemistry of Intercalated Quaternary Diazaaromatic Salts," *J. Am. Chem. Soc.*, 113:8153-8159 (1991).
X	76	Bumm, et al., "Are Single Molecular Wires Conducting?," *Science* 271:1705-1707 (1996).
X	77	Cantor, C.R. et al., "Report on the Sequencing by Hybridization Workshop," *Genomics*, 13:1378-1383 (1992).
X	78	Chang, I-Jy, et al., "High-Driving-Force Electron Transfer in Metalloproteins: Intramolecular Oxidation of Ferrocytochrome *c* by Ru(2,2'-bpy)$_2$(im)(His-33)$^{3+}$," *J. Am. Chem. Soc.*, 113:7056-7057 (1991).
X	79	Chidsey, C.E.D., et al., "Free Energy and Temperature Dependence of Electron Transfer at the Metal Electrolyte Interface," *Science*, 251:919-923 (1991).
✓	80	Chidsey, et al., "Coadsorption of Ferrocene-Terminated and Unsubstituted Alkanethiols on Gold" Electroactive Self-Assembled Monolayers," *J. Am. Chem. Soc.*, 112:4301-4306 (1990).
X	81	Chrisey, et al., "Covalent attachment of synthetic DNA to self-assembled monolayer films," *Nucleic Acids Research*, 24(15):3031-3039 (1996).
X	82	Clery, "DNA Goes Electric," *Science*, 267:1270 (1995).
✓	83	*Commerce Business Daily Issue* of September 26, 1996 PSA#1688.

EXAMINER	DATE CONSIDERED
	7/11/2003

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INFORMATION DISCLOSURE CITATION

PTO-1449

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APPLICANT: KAYYEM	
FILING DATE: December 27, 1999	GROUP 3736 1634

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	85	Davis, L. M., et al., "Electron Donor Properties of the Antitumour Drug Amsacrine as Studied by Fluorescence Quenching of DNA-Bound Ethidium," *Chem.-Biol. Interactions*, 62:45-58 (1987).
✓	86	Davis, L. M., et al., "Elements of biosensor construction," *Enzyme Microb. Technol.* 17:1030-1035 (1995).
✓	87	Degani et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 2. Methods for Bonding Electron-Transfer Relays to Glucose Oxidase and D-Amino-Acid Oxidase," *J. Am. Chem. Soc.* 110:2615-2620 (1988).
✓	88	Degani, Y., et al., "Electrical Communication between Redox Centers of Glucose Oxidase and Electrodes via Electrostatically and Covalently Bound Redox Polymers," *J. Am. Chem. Soc.*, 111:2357-2358 (1989).
✓	89	Degani, Y., et al., "Direct Electrical Communication between Chemically Modified Enzymes and Metal Electrodes. 1. Electron Transfer from Glucose Oxidase to Metal Electrodes via Electron Relays, Bound Covalently to the Enzyme," *J. Phys. Chem.*, 91(6):1285-1288 (1987).
✓	90	Deinhammer, R.S., et al., "Electronchemical Oxidation of Amine-containing compounds: A Route to the Surface Modification of glassy carbon electrodes," *Langmuir*, 10:1306-1313 (1994).
✓	91	Dreyer, G. B., et al., "Sequence-specific cleavage of single-stranded DNA: Oligodeoxynucleotide-EDTA·Fe(II)," *Proc. Natl. Acad. Sci. USA*, 82:968-972 (1985).
✓	92	Durham, B., et al., "Photoinduced Electron-Transfer Kinetics of Singly Labeled Ruthenium Bis(bipyridin) Dicarboxybipyridine Cytochrome *c* Derivatives," *Biochemistry*, 28:8659-8665 (1989).
✓	93	Durham, B., et al., "Electron-Transfer Kinetics of Singly Labeled Ruthenium(II) Polypyridine Cytochrome c Derivatives," *Advances in Chemistry Series*, 226:181-193 (1990).
✓	94	Elias, H., et al., "Electron-Transfer Kinetics of Zn-Substituted Cytochrome *c* and Its $Ru(NH_3)_5$(Histidine-33) Derivative," *J. Am. Chem. Soc.*, 110:429-434 (1988).
✓	95	Farver, O., et al., "Long-range intramolecular electron transfer in azurins," *Proc. Natl. Acad. Sci. USA*, 86:6968-6972 (1989).
✓	96	Fox, L. S., et al., "Gaussian Free-Energy Dependence of Electron-Transfer Rates in Iridium Complexes," *Science*, 247:1069-1071 (1990).
✓	97	Fox, M. A., et al., "Light-Harvesting Polymer Systems," *C&EN*, pages 38-48 (March 15, 1993).
✓	98	Francois, J-C., et al., "Periodic Cleavage of Poly(dA) by Oligothymidylates Covalently Linked to the 1,10-Phenanthroline-Copper Complex," *Biochemistry*, 27:2272-2276 (1988).
✓	99	Friedman, A. E., et al., "Molecular 'Light Switch' for DNA: $Ru(bpy)_2(dppz)^{2+}$," *J. Am. Chem. Soc.*, 112:4960-4962 (1990).
✓	100	Fromherz, P., et al., "Photoinduced Electron Transfer in DNA Matrix from Intercalated Ethidium to Condensed Methylviologen," *J. Am. Chem. Soc.*, 108:5361-5362 (1986).
✓	101	Gardner, et al., "Application of conducting polymer technology in microsystems," *Sensors and Actuators*, A51:57-66 (1995).
✓	102	Gregg, B. A., et al., "Cross-linked redox gels containing glucose oxidase for amperometric biosensor applications," *Anal. Chem.*, 62:258-263 (1990).
✓	103	Gregg, B. A., et al., "Redox Polymer Films Containing Enzymes. 1. A Redox-Conducting Epoxy Cement: Synthesis, Characterization, and Electrocatalytic Oxidation of Hydroquinone," *J. Phys. Chem.*, 95:5970-5975 (1991).

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8085 1449A.FRM (8/95)

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. A-67499-1/RFT/ RMS/RMK	SERIAL NO: 09/472,657
	APPLICANT: KAYYEM	
	FILING DATE: December 27, 1999	GROUP ~~3736~~ 1634

PATENT & TRADEMARK OFFICE DEC 2 6 2000 TC1700

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
✓	104	Hashimoto, et al., "Sequence-Specific Gene Detection with a Gold Electrode Modified with DNA Probes and an Electrochemically Active Dye," *Anal. Chem.* 66:3830-3833 (1994).
✓	105	Hegner, et al., "Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions," *FEBS* 336(3):452-456 (1993).
✓	106	Heller, A., et al., "Amperometric biosensors based on three-dimensional hydrogel-forming epoxy networks," *Sensors and Actuators*, 13-14:180-183 (1993).
✓	107	Heller, A., "Electrical Wiring of Redox Enzymes," *Acc. Chem. Res.*, 23:128-134 (1990).
✓	108	Heller et al., "Fluorescent Energy Transfer Oligonucleotide Probes," *Fed. Proc.* 46(6):1968 (1987) Abstract No. 248.
✓	109	Ho "DNA-Mediated Electron Transfer and Application to 'Biochip'Development," *Abstract. Office of Naval Research* (Report Date: July 25, 1991) 1-4, RR04106.
X	110	Hobbs et al., "Polynucleotides Containing 2'-Amino-2'deoxyribose and 2'-Azido-2'-deoxyriose," *Biochemistry, 12(25)*:5138-5145 (1973).
X	111	Hsung, et al., "Synthesis and Characterization of Unsymmetric Ferrocene-Terminated Phenylethynyl Oligomers," *Organometallics,* 14:4808-4815 (1995).
✓	112	Hsung, et al., "Thiophenol Protecting Groups for the Palladium-Catalyzed Heck Reaction: Efficient Syntheses of Conjugated Arylthiols," *Tetrahedron Letters.* 36(26):4525-4528 (1995).
X	113	Jenkins et al., "A Sequence-Specific Molecular Light Switch: Tebhering of an Oligonucleotide to a Dipyridophenazine Complex of Ruthenium (II), *J. Am. Chem. Soc.*, 114:8736-8738 (1992).
✓	114	Katritzky, et al., "Pyridylethylation - A New Protection Method for Active Hydrogen Compounds," *Tetrahedron Letters*,25(12):1223-1226 (1984).
✓	115	Kelley, S.O. and J.K. Barton, "Electrochemistry of Methylene Blue Bound to a DNA-Modified Electrode," *Bioconjugate Chem.*, 8:31-37 (1997).
✓	116	Kojima et al., "A DNA Probe of Ruthenium Bipyridine Complex Using Photocatalytic Activity," *Chemistry Letter*, pp 1889-1982 (1989).
✓	117	Laviron, E., "A.C. Polarography and Faradaic Impedance of Strongly Adsorbed Electroactive Species. Part I: Theoretical and Experimental Study of a Quasi-Reversible Reaction in the Case of a Langmuir Isotherm," *J. Electroanal. Chem.*, 97:135-149 (1979).
✓	118	Laviron, E., "A.C. Polarography and Faradaic Impedance of Strongly Adsorbed Electoactive Species. Part III: Theoretical Complex Plane Analysis for a Surface Redox Reaction," *J. Electroanal. Chem.*, 105:35-42 (1979).
✓	119	Lee, et al., "Direct Measurement of the Forces Between Complementary Strands of DNA," *Science*, 266:771-773 (1994).
✓	120	Lenhard, J.R., et al., "Part VII Covalent Bonding of a Reversible- Electrode Reactanbt to Pt Electrodes Using an organosilane Reagent" *J. Electronal. Chem.*, 78:195-201 (1977).
✓	121	Lipkin "Identifying DNA by the Speed of Electrons," *Science News*, 147(8):117 (1995)

EXAMINER	DATE CONSIDERED
[signature]	7/11/03

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PATENT & TRADEMARK OFFICE

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
✓	122	Maskos, et al., "Oligonucleotide hybridisations on glass supports: a novel linker for oligonucleotide synthesis and hybridisation properties of oligonucleotides synthesised *in situ*," *Nucleic Acids Research*, 20(7):1679-1684 (1992).
✓	123	Mazzocchi, Ph.H. and G. Fritz, "Photolysis of N-(2-Methyl-2-Propenyl)phthalimide in Methanol. Evidence Supporting Radical-Radical Coupling of a Photochemically Generated Radical Ion Pair," *Journal of the American Chemical Society*, 108(18):5361-5362 (1986).
✓	124	McGee, et al., "2'-Amino-2'-deoxyuridine *via* an Intramolecular Cyclization of a Trichloroacetimidate," *J. Org. Chem.*, 61:781-785 (1996).
✓	125	Meade, T. J., "Driving-Force Effects on the Rate of Long-Range Electron Transfer in Ruthenium-Modified Cytochrome c," *J. Am. Chem. Soc.*, 111:4353-4356 (1989).
✓	126	Meade, T. J., et al., "Electron Transfer through DNA: Site-Specific Modification of Duplex DNA with Ruthenium Donors and Acceptors," *Angew Chem. Int. Ed. Engl.*, 34:352 (1995).
✓	127	Mestel, "'Electron Highway' Points to Identity of DNA," *New Scientist*, p. 21 (1995).
✓	128	Millan, et al., "Voltammetric DNA Biosensor for Cystic Fibrosis Based on a Modified Carbon Paste Electrode," *Anal. Chem.*, 66:2943-2948 (1994).
✓	129	Millan, K.M., et al., "Covalent Immobilization of DNA onto Glassy Carbon Electrodes," *Electroanalysis*, 4(10):929-932 (1992).
✓	130	Millan, K.M. and Mikkelsen, S.R., "Sequence-Selective Biosensor for DNA Based on Electroactive Hybridization Indicators," *Anal. Chem.*, 65:2317-2323 (1993).
✓	131	Miller, C., "Absorbed ω-Hydroxy Thiol Monolayers on Gold Electrodes: Evidence for Electron Tunneling to Redox Species in Solution," *J. Phys. Chem.*, 95:877-886 (1991).
✓	132	Murphy, C. J., et al., "Long-Range Photoinduced Electron Transfer Through a DNA Helix," *Science*, 262:1025-1029 (1993).
✓	133	Orellana, G., et al., "Photoinduced Electron Transfer Quenching of Excited Ru(II) Polypyridyls Bound to DNA: The Role of the Nucleic Acid Double Helix," *Photochemistry and Photobiology*, 54(4):499-509 (1991).
✓	134	Palecek, "From Polarography of DNA to Microanalysis with Nucleic Acid-Modified Electrodes," *Electroanalysis*, 8(1):7-14 (1996).
✓	135	Paterson, "Electric Genes: Current Flow in DNA Could Lead to Faster Genetic Testing," *Scientific American*, 33-34 (May 1995).
✓	136	Purugganan, M. D., et al., "Accelerated Electron Transfer Between Metal Complexes Mediated by DNA, *Science*, 241:1645-1649 (1988).
✓	137	Rhodes, D. And A. Klug, "Helical Periodicity of DNA Determined by Enzyme Digestion," *Nature*, 286:573-578 (1980).
✓	138	Risser, S. M., et al., "Electron Transfer in DNA: Predictions of Exponential Growth and Decay of Coupling with Donor-Acceptor Distance," *J. Am. Chem. Soc.*, 115(6):2508-2510 (1993).
✓	139	Sato, Y., et al., "Unidirectional Electron Transfer at Self-Assembled Monolayers of 11-Ferrocenyl-1-undecanethiol on Gold," *Bull. Chem. Soc. Jpn.*, 66(4):1032-1037 (1993).

EXAMINER	DATE CONSIDERED
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APPLICANT: KAYYEM	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	140	Satyanarayana, S., et al., "Neither Δ- nor Λ-Tris(phenanthroline)ruthenium(II) Binds to DNA by Classical Intercalation," *Biochemistry*, 31(39):9319-9324 (1992).
X	141	Schreiber, et al., "Bis(purine) Complexes of *trans*-a_2Pt^{II}: Preparation and X-ray Structures of Bis(9-methyladenine) and Mixed 9-Methyladenine, 9-Methylguanine Complexes and Chemistry Relevant to Metal-Modified Nucelobase Triples and Quartets," *J. Am. Chem. Soc.* 118:4124-4132 (1996).
X	142	Schuhmann, W., et al., "Electron Transfer between Glucose Oxidase and Electrodes via Redox Mediators Bound with Flexible Chains to the Enzyme Surface," *J. Am. Chem. Soc.*, 113:1394-1397 (1991).
X	143	Schumm, et al., "Iterative Divergent/Convergent Approach to Linear Conjugated Oligomers by Successive Doubling of the Molecular Length: A Rapid Route to a 128 Å-Long Potential Molecular Wire," *Angew. Chem. Int. Ed. Engl.*, 33(11):1360-1363 (1994).
X	144	Sigal et al., "A Self-Assembled Monolayer for the Binding and Study of Histidine-Tagged Proteins by Surface Plasmon Resonance," *Anal. Chem.*, 68(3):490-497 (1996).
X	145	Southern, et al., "Arrays of complementary oligonucleotides for analysing the hybridisation behaviour of nucleic acids," *Nucleic Acids Research*, 22(8):1368-1373 (1994).
X	146	Strobel, S. A., et al., "Site-Specific Cleavage of a Yeast Chromosome by Oligonucleotide-Directed Triple-Helix Formation," *Science*, 249:73-75 (1990).
✓	147	Su, et al., "Interfacial Nucleic Acid Hybridization Studied by Random Primer ^{32}P Labelling and Liquid-Phase Acoustic Network Analysis," *Analytical Chemistry*, 66(6):769-777 (1994).
X	148	Telser, J., et al., "DNA Duplexes Covalently Labeled at Two Sites: Synthesis and Characterization by Steady-State and Time-Resolved Optical Spectroscopies," *J. Am. Chem. Soc.*, 111:7226-7232 (1989).
X	149	Telser, J., et al., "DNA Oligomers and Duplexes Containing a Covalently Attached Derivative of Tris(2,2'-bipyridine)ruthenium(II): Syrithesis and Characterization by Thermodynamic and Optical Spectroscopic Measurements," *J. Am. Chem. Soc.*, 111:7221-7226 (1989).
X	150	Tour, "Conjugated Macromolecules of Precise Length and Constitution. Organic Synthesis for the Construction of Nanoarchitectures;" *Chem. Rev.*, 96:537-553 (1996).
✓	151	Tour, et al., "Self-Assembled Monolayers and Multilayers of Conjugated Thiols, α-ω-Dithiols, and Thioacetyl-Containing Adsorbates. Understanding Attachments between Potential Molecular Wires and Gold Surfaces," *J. Am. Chem. Soc.*, 117:9529-9534 (1995).
✓	152	Tullius, T.D. and B.A. Dombroski, "Iron(II) EDTA Used to Measure the Helical Twist Along Any DNA Molecule," *Science*, 230:679-681 (1985).
✓	153	Turro, N., et al. "Photoelectron Transfer Between Molecules Adsorbed in Restricted Spaces," *Photochem. Convers. Storage Sol. Energy, Proc. Int. Conf., 8th*, pp 121-139 (1990).
X	154	Turro, N. J., et al., "Molecular Recognition and Chemistry in Restricted Reaction Spaces. Photophysics and Photoinduced Electron Transfer on the Surfaces of Micelles, Dendrimers, and DNA," *Acc. Chem. Res.*, 24:332-340 (1991).
X	155	Uosake, K., et al., "A Self-Assembled Monolayer of Ferrocenylalkane Thiols on Gold as an Electron Mediator for the Reduction of Fe(III)-EDTA in Solution," *Electrochemica Acta.*, 36(11/12):1799-1801 (1991).
X	156	Van Ness, J., et al., "A Versatile Solid Support System for Oligodeoxynucleotide Probe-Based Hybridization Assays," *Nucleic Acids Research*, 19(12):3345-3349 (1991).

EXAMINER	DATE CONSIDERED
[signature]	2/11/2003

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

8085 1449A.FRM (8/95)

INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. A-67499-1/RFT/ RMS/RMK	SERIAL NO: 09/472,657
	APPLICANT: KAYYEM	
	FILING DATE: December 27, 1999	GROUP ~~3736~~ 1634

DEC 2 6 2000

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	157	Weber, et al., "Voltammetry of Redox-Active Groups Irreversibly Adsorbed onto Electrodes. Treatment Using the Marcus Relation between Rate and Overpotential," *Anal. Chem.*, 66:3164-3172 (1994).
	158	Williams, et al., "Studies of oligonucleotide interactions by hybridisation to arrays: the influence of dangling ends on duplex yield," *Nucleic Acids Research*, 22(8):1365-1367 (1994).
	159	Winkler, J. R., et al., "Electron Transfer in Ruthenium-Modified Proteins," *Chem. Rev.*, 92:369-379 (1992).
	160	Xu, et al., "Immobilization of DNA on an Aluminum(III) alkaneobisphosphonate Thin Film with Electrogenerated Chemiluminescent Detection," *J. Am. Chem. Soc.*, 116:8386-8387 (1994).
	161	Xu, et al., "Immobilization and Hybridization of DNA on an Aluminum(III) Alkanebisphosphonate Thin Film with Electrogenerated Chemiluminescent Detection," *J. Am. Chem. Soc.*, 117:2627-2631 (1995).
	162	Yang, et al., "Growth and Characterization of Metal(II) Alkaneobisphosphonate Multilayer Thin Films on Gold Surfaces," *J. Am. Chem. Soc.*, 115:11855-11862 (1993).
	163	Zhou, et al., "Fluorescent Chemosensors Based on Energy Migration in Conjugated Polymers: The Molecular Wire Approach to Increased Sensitivity," *J. Am. Chem. Soc.*, 117:12593-12602 (1995).
	164	Mucic et al., "Synthesis and Characterization of DNA with Ferrocenyl Groups Attached to their 5'-Termini: Electrochemical Characterization of a Redox-Active Nucleotide Monolayer," *Chem. Commun.*, pp. 555-557 (1996).
	165	Carr et al., "Novel Electrochemical Sensors for Neutral Molecules," *Chem. Commun.*, 1649-1650 (1997).
	166	Carter et al., "Voltammetric Studies of the Interaction of Metal Chelates with DNA. 2. Tris-Chelated Complexes of Cobalt(III) and Iron(II) with 10-Phenanthroline and 2,2'-Bipyridine," *J. Am. Chem. Soc.*, 11:8901-8911 (1989).
	167	Johnston et al., "Trans-Dioxorhenium(V)-Mediated Electrocatalytic Oxidation of DNA at Indium Tin-Oxide Electrodes: Voltammetric Detection of DNA Cleavage in Solution," *Inorg. Chem.*, 33:6388-6390 (1994).
	168	Korri-Youssoufi et al., "Toward Bioelectronics: Specific DNA Recognition Based on an Oligonucleotide-Functionalized Polypyrrole," *J. Am. Chem. Soc.*, 119(31):7388-7389 (1997).
	169	Aizawa et al., "Integrated Molecular Systems for Biosensors," Sensors and Acuators B, B@$ (Nos 1/3) Part 1:1-5 (March 1995).
	170	Reimers et al., "Toward Efficient Molecular Wires and Switches: the Brooker Ions," Biosystems, 35:107-111 (1995).
	171	Albers et al., "Design of Novel Molecular Wires for Realizing Long-Distance Electron Transfer," Biochemistry and Bioenergetics, 42:25-33 (1997).

EXAMINER	DATE CONSIDERED
	7/11/2003

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. A-67499-1/RFT/RMS/RMK	SERIAL NO: 09/472,657
	APPLICANT: KAYYEM	
	FILING DATE: December 27, 1999	GROUP 1634 ~~3736~~

DEC 2 6 2000 PATENT & TRADEMARK OFFICE

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
MV	172	Lincoln et al., "Shorting Circuiting the Molecular Wire," J. Am. Chem. Soc., 119(6)1454-1455 (1997).
X	173	Velev et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," The ACS Journal of Surfaces and Colloids, Langmuir, 15(11):3693-3698 (1999).
X	174	Blonder et al., "Three-dimensional Redox-Active layered Composites of Au-Au, Ag-Ag and Au-Ag Colloids," Chem. Commun. 1393-1394 (1998).
X	175	Mirkin et al., "A DNA-based Method for Ratioally Assembling Nonoparticles into Macroscopic Materials," Nature, 382:607-609 (1996).
X	176	Elghanian et al., "Selective Colorimetric Detection of Polynucleotides Based on the Distance-Dependent Optical Properties of Gold Nanoparticles," Science, 277:1078-1081 (1997).
X	177	Storhoff et al., "One-Pot Colorimetric Differentiation of Polynucleotides with Single Base Imperfections Using Gold Nanoparticles Probes," J. Am. Chem. Soc., 120:1959-1964 (1998).
X	178	Watson et al., "Hybrid Nanoparticles with Block Copolymer Shell Structures," J. Am. Chem. Soc., 121:462-463 (1999).
X	179	Mucic et al., "DNA-Directed Synthesis of Binary Nanoparticle Network Materials," J. Am. Chem. Soc., 120:12674-12675 (1998).
X	180	Mitchell et al., "Programmed Assembly of DNA Functionalized Quantum Dots," J. Am. Chem. Soc., 121:8122-8123 (1999).
✓	181	Kamat et al., J. Phys. chem., 93(4):1405-1409 (1989). Abstract
X	182	Fotin, A. et al., "Parallel Thermodynamic Analysis of Duplexes on Oligodeoxyribonucleotide Microchips," Nucleic Acids Research, 216(6):1515-1521 (1998).
X	183	Guschin, D. et al., "Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips," Analytical Biochemistry, 250:203-211 (1997).
X	184	Dubiley, S. et al., "Fractionation, phosphorylation and Ligation on Oligonucleotide Microchips to Enhance Sequencing by Hybridization," Nucleic Acids Research, 25(12):2259-2265 (1997).
X	185	Guschin, D. et al., "Oligonucleotide Microchips as Genosensors for Determinative and Environmental Studies in Microbiology," 63(6):2397-2402 (1997).
X	186	Drobyshev, A. et al., "Sequence Analysis by Hybridization with Oligonucleotide Microchip: Identification of β-thalassemia Mutations," Gene, 188:45-52 (1997).
X	187	Proudnikov, D. et al., "Chemical Methods of DNA and RNA Fluorescent Labeling," Nucleic Acids Research, 24(22):4535-4542 (1996).
X	188	Timofeev, E. et al., "Methidium Intercalator Inserted into Synthetic Oligonucleotides," Tetrahedron Letters, 37(47):8467-8470 (1996).
		X

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[signature]	7/1/2003

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INFORMATION DISCLOSURE CITATION PTO-1449	ATTY. DOCKET NO. A-67643-2/RFT/ RMS/RMK	SERIAL NO: 09/621,275
	APPLICANT: Blackburn, G.	
	FILING DATE: July 20, 2000	GROUP 1634 NOT YET ASSIGNED

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		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
✓	189	Livshits, M. et al., "Theoretical Analysis of the Kinetics of DNA Hybridization with Gel-Immobilized Oligonucleotides," Biophysical Journal, 71:2795-2801 (1996).
✓	190	Timofeev, E. et al., "Regioselective Immobilization of Short Oligonucleotides to Acrylic Copolymer Gel," Nucleic Acids Research, 24(16): 3142-3148 (1996).
✓	191	Parinov, S., "DNA Sequencing by Hybridization to Microchip octa- and Decanucleotides Extended by Stacked Pentanucleotides, " Nucleic Acids Research, 24(15):2998-3004 (1996).
✓	200	Yershov, G. et al., "DNA Analysis and Diagnostics on Oligonucleotide Microchips," Proc. Natl. Acad. Sci. USA, 93:4913-4918 (1996).
✓	201	Mirzabekov, A. et al., "Dna Sequencing by Hybridization - a Megasequencing Method and a Diagnostic Tool," Tibtech, 12:27-32 (1994).
✓	202	Brodolin, K. et al., "Conformational changes in E.Coli RNA Polymerase During Promoter Recognition," Nucleic Acids Research, 24(24):5748-5753 (1993).
✓	203	Proudnikov, D. "Immobilization of DNA in Polyacrylamide Gel for the manufacture of DNA and DNA-Oligonucleotide Microchips," Analytical Biochemistry, 259:34-41 (1998). ✓
✓	204	Esipova, N.G. et al., "Investigation of Sites of Strong DNA-protein Interactions in DNA-binding Proteins by Theoretical and DNA-protein Cross-Linking Methods, " Journal of Bimolecular Structure & Dynamics, 12(6):A049 (1995).

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	7/11/2003

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INFORMATION DISCLOSURE CITATION

PTO-1449

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ATTY. DOCKET NO.	SERIAL NO:
A-67499-1/RFT/ RMS/RMK	09/472,657
APPLICANT: KAYYEM	
FILING DATE: December 27, 1999	GROUP ~~3736~~ 1634

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
MV	205	6,001,087	12/1999	Zurcher			
MV	206	5,975,343	11/1999	Kelly et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes	Translation No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MV	207	Vacutainer PPT, Product Circular, 1-8 (1997).
	208	Affirm VP III, Microbial Identification Test, for in Vitro Diagnostic use, Catalog No. 4406252 (1996).
	209	Vacutainer CPT promotional materials, 8 pages.
	210	Rainen et al., "Evaluation of the VACUTAINER® Brand PPT™ Tubes for HCV Viral Load Testing." ✓
	211	Rainen et al., "Evaluation of VACUTAINER® Brand PPT™ Tubes for HIV Viral Load Testing." ✓

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[signature]	7/11/2003

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Sheet 1 of 3

	Complete if Known
Application Number	09/427,657
Filing Date	December 27, 1999
First Named Inventor	Kayyem
Group Art Unit	~~3736~~ 1634
Examiner Name	Not Yet Assigned
Attorney Docket Number	A-67499-1/RFT/RMS/RMK

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
W	1	4,704,193		Bowers et al.	11/1987	
	2	4,707,352		Stavrianopoulos	11/1987	
	3	4,787,963		MacConnell	11/1988	
	4	4,945,045		Forrest et al.	07/1990	
	5	5,089,112		Skotheim et al.	02/1992	
	6	5,180,968		Bruckenstein et al.	01/1993	
	7	5,242,828		Bergstrom et al.	09/1993	
	8	5,356,786		Heller et al.	10/1994	
	9	5,391,272		O'Daly et al.	02/1995	
	10	5,436,161		Bergstrom et al.	07/1995	
	11	5,443,701		Willner et al.	08/1995	
	12	5,571,568		Ribi et al.	06/1989	
	13	5,632,957		Heller et al.	05/1997	
	14	5,700,667		Marble et al.	12/1997	
	15	5,795,453		Gilmartin	08/1998	
	16	5,837,859		Teoule et al.	11/1998	
	17	5,849,486		Heller et al.	12/1998	
	18	6,060,023		Maracas	05/2000	
	19	6,060,327		Keen	05/2000	
					X	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
W	20	WO	85/05815		Genetics International, Inc.	03/1985		
	21	WO	97/31256	A3	Cornell Research Found.	08/1997		
	22	WO	97/41425	A1	Pence Inc.	11/1997		
	23	WO	98/27229		University of Chicago	06/1998		
	24	WO	98/51823	A1	Mosaic Technologies	11/1998		
					X			

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Sheet 2 of 3

Complete if Known	
Application Number	09/427,657
Filing Date	December 27, 1999
First Named Inventor	Kayyem
Group Art Unit	~~3736~~ 1634
Examiner Name	Not Yet Assigned
Attorney Docket Number	A-67499-1/RFT/RMS/RMK

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	25	6,071,699		Meade et al.	06/2000	
	26	6,087,100		Meade et al.	07/2000	
	27	6,096,273		Kayyem et al.	08/2000	
	28	6,096,825		Garnier et al.	08/2000	
	29	6,107,080		Lennox	08/2000	
	30	6,177,250		Meade et al.	01/2001	
	31	6,180,352		Meade et al.	01/2001	
	32	6,200,761		Meade et al.	03/2001	
	33	6,203,758		Marks et al.	03/01	
	34	6,207,369		Wohlstadter et al.	03/2001	
	35	6,238,870		Meade et al.	05/2001	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	36	WO	98/57319	A1	Clinical Micro Sensors, Inc.	11/1999		
	37	WO	99/29711	A1	Nanogen Inc.	06/1999		
	38	WO	99/37819		Clinical Micro Sensors	07/1999		

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Sheet 3 of 3

Complete if Known	
Application Number	09/427,657
Filing Date	December 27, 1999
First Named Inventor	Kayyem
Group Art Unit	~~2730~~ 1634
Examiner Name	Not Yet Assigned
Attorney Docket Number	A-67499-1/RFT/RMS/RMK

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
W	39	Bamdad, C. "A DNA self-assembled monolayer for the specific attachment of unmodified double - or single stranded DNA," Biophysical Journal, 75:1997-2003 (1988).	
W	40	Sloop et al., "Metalloorganic labels for DNA sequencing and mapping," New. J. Chem., 18: 317-326 (1994).	

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